

Newsletter

of the Research & Publications Committee, IIMA



Period covered April 1, 2013 until March 31, 2014

June 2014

Abstracts of

Articles

published in "A" Category refereed journals



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Role of energy efficiency in climate change mitigation policy for India: Assessment of co-benefits and opportunities within an integrated assessment modeling framework

In Climatic Change, 123, 2014, 597 - 609

Chaturvedi, Vaibhav and Shukla, P. R.

Addressing the challenges of global warming requires interventions on both the energy supply and demand side. With the supply side responses being thoroughly discussed in the literature, our paper focuses on analyzing the role of end use efficiency improvements for Indian climate change mitigation policy and the associated co-benefits, within the integrated assessment modeling framework of Global Change Assessment Model (GCAM). Six scenarios are analyzed here in total- one no climate policy and two climate policy cases, and within each of these one scenario with reference end use energy technology assumptions and another with advance end use energy technology assumptions has been analyzed. The paper has some important insights. Final energy demand and emissions in India are significantly reduced with energy efficiency improvements, and the role of this policy is important especially for the building and transportation sector under both reference and climate policy scenarios. Though energy efficiency policy should be an integral part of climate policy, by itself it is not sufficient for achieving mitigation targets, and a climate policy is necessary for achieving mitigation goals. There are significant co-benefits of energy efficiency improvements. Energy security for India is improved with reduced oil, coal and gas imports. Significant reduction in local pollutant gases is found which is important for local health concerns. Capital investment requirement for Indian electricity generation is reduced, more so for the climate policy scenarios, and finally there are significant savings in terms of reduced abatement cost for meeting climate change mitigation goals.

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Impact of current policies on future air quality and health outcomes in Delhi, India

In Atmospheric Environment, 75, 2013, 241 - 248

Dholakia, Hem H.; Purohit, Pallav; Rao, Shilpa and Garg, Amit

A key policy challenge in Indian megacities is to curb high concentrations of $PM_{2.5}$ and mitigate associated adverse health impacts. Using the Greenhouse Gases and Air Pollution Interactions and Synergies (GAINS) model we carry out an integrated analysis of the air quality regulations across different sectors for the city of Delhi. Our findings show that $PM_{2.5}$ concentrations for Delhi will not reach the recommended national ambient air quality standards (NAAQS) even by 2030 under the current policies scenario. Adopting advanced control technologies reduces $PM_{2.5}$ concentrations by about 60% and all-cause mortality by half in 2030. Climate change mitigation policies significantly reduce greenhouse gases, but have a modest impact on reducing $PM_{2.5}$ concentrations. Stringent policies to control the net flow of air pollution from trans-boundary sources will play a crucial role in reducing pollution levels in Delhi city. Achieving NAAQS requires a stringent policy portfolio that combines advanced control technologies with a switch to cleaner fuels and the control of trans-boundary pollution.

Time Series Characterization of Gaming Workload for Runtime Power Management

In IEEE Transactions on Computers [forthcoming 2014]

Dietrich, Benedikt; Goswami, Dip; Chakraborty, Samarjit; Guha, Apratim and Gries, Matthias

Runtime power management using dynamic voltage and frequency scaling (DVFS) has been extensively studied for video processing applications. But there is little work on game power management on battery-operated portable devices like mobile phones. Taking a cue from video power management, where PID controllers have been recently applied to game workload prediction and DVFS. However, the use of hand-tuned PID controller gains on relatively short game plays left open questions on the robustness of the controller and the sensitivity of prediction quality on the choice of the gain values. In this paper we try to systematically answer these questions. We first show that from the space of PID controller gain values, only a small subset leads to good game quality and power savings. Further, the choice of this set highly depends on the scene and the game application. For most gain values the controller becomes unstable, which can lead to large oscillations in the processor's frequency setting and thereby poor results. We then study a number of time series models, such as a Least Mean Squares (LMS) Linear Predictor and its generalizations in the form of Autoregressive Moving Average (ARMA) models. These models learn most of the relevant model parameters iteratively as the game progresses, thereby dramatically reducing the complexity of manual parameter estimation. This makes them deployable in real setups, where all game plays and even game applications are not a priori known. We have evaluated each of these models (PID, LMS and ARMA) for a variety of games — ranging from Quake II to more recent closed-source games such as Crysis, Need for Speed - Shift and World in Conflict — with very encouraging results. To the best of our knowledge, this is the first work that systematically explores (a) the feasibility of manually tuning PID controller parameters for power management, (b) time series models for workload prediction for gaming applications, and (c) power management for closed-source games.

An assessment of household electricity load curves and corresponding CO₂ marginal abatement cost curves for Gujarat state, India

In Energy Policy, 66, 2014, 568 – 584

Garg, Amit; Shukla, P. R.; Maheswari, Jyoti and Upadhyay, Jigeesha

Gujarat, a large industrialized state in India, consumed 67 TWh of electricity in 2009–10, besides experiencing a 4.5% demand–supply short-fall. Residential sector

accounted for 15% of the total electricity consumption. We conducted load research survey across 21 cities and towns of the state to estimate residential electricity load curves, share of appliances by type and usage patterns for all types of household appliances at utility, geographic, appliance, income and end-use levels. The results indicate that a large scope exists for penetration of energy efficient devices in residential sector. Marginal Abatement Cost (MAC) curves for electricity and CO₂ were generated to analyze relative attractiveness of energy efficient appliance options. Results indicate that up to 7.9 TWh of electricity can be saved per year with 6.7 Mt-CO₂ emissions mitigation at negative or very low CO₂ prices of US\$ 10/t-CO₂. Despite such options existing, their penetration is not realized due to myriad barriers such as financial, institutional or awareness and therefore cannot be taken as baseline options for CO₂ emission mitigation regimes.

The Effect of Surveillance and Appreciative Inquiry on Puerperal Infections: A Longitudinal Cohort Study in India

In PLOS One, 9, 2014, 1-8

Hussein, Julia; Ramani, K. V.; Kanguru, Lovney; Patel, Kalpesh; Bell, Jacqueline; Patel, Purvi; Walker, Leighton; Mehta, Rajesh and Mavalankar, Dileep

We evaluated the effects of an intervention comprising surveillance and an organisational change called Appreciative Inquiry on puerperal infections in hospitals in Gujarat state, India. A longitudinal cohort study with a control group of women who delivered in six hospitals was conducted over 16 months between 2010 and 2012. After a five month pre-intervention period, the intervention was introduced in three hospitals. A chi-square test and logistic regression were used to examine for associations, trends and interactions between the intervention and control groups.

Of the 8,124 women followed up, puerperal infections were reported in 319 women (3.9%) over the course of the study. At the end of the study, infection incidence in the control group halved from 7.4% to 3.5%; and that in the intervention group reduced proportionately even more, from 4.3% to 1.7%. A chi-square test for trend confirmed the reduction of infection in the intervention and control groups ($p < 0.0001$) but the trends were not statistically different from one another. There was an overall reduction of infection by month (OR = 0.94 95% CI 0.91–0.97). Risk factors like delivery type, complications or delivery attendant showed no association with infection.

Interruption of resource flows in the health system occurred during the intervention phase, which may have affected the findings. The incidence of infection fell in both control and intervention groups during the course of the study. It is not clear if appreciative inquiry contributed to the reductions observed. A number of practical and methodological limitations were faced.

Implications of the international reduction pledges on long term energy system changes and costs in China and India

In Energy Policy, 63, 2013, 1032 – 1041

Lucas, P. L.; Shukla, P.R.; Chen, W.; van Ruijven, B.J.; Dhar, S.; den Elzen, M.G.J. and van Vuuren, D.P.

This paper analyses the impact of postponing global mitigation action on abatement costs and energy systems changes in China and India. It compares energy-system changes and mitigation costs from a global and two national energy-system models under two global emission pathways with medium likelihood of meeting the 2°C target: a least-cost pathway and a pathway that postpones ambitious mitigation action, starting from the Copenhagen Accord pledges. Both pathways have similar 2010–2050 cumulative greenhouse gas emissions. The analysis shows that postponing mitigation action increases the lock-in in less energy efficient technologies and results in much higher cumulative mitigation costs. The models agree that carbon capture and storage (CCS) and nuclear energy are important mitigation technologies, while the shares



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of biofuels and other renewables vary largely over the models. Differences between India and China with respect to the timing of emission reductions and the choice of mitigation measures relate to differences in projections of rapid economic change, capital stock turnover and technological development. Furthermore, depending on the way it is implemented, climate policy could increase indoor air pollution, but it is likely to provide synergies for energy security. These relations should be taken into account when designing national climate policies.

Coherence between health policy and human resource strategy: Lessons from maternal health in Vietnam, India and China

In Health Policy and Planning, 2013, 1 – 10

Martineau, T.; Mirzoev, T.; Pearson, S.; Ha, B.T.; Xu, Q.; Ramani, K.V. and Liu, X

The lack of coherence between the health policies and human resource (HR) strategy is one of the major causes of failure of meeting health goals. This article explores the relationship and the degree of coherence between maternal health policy processes and HR strategy in Vietnam, China and India in the period 2005–09 using four case studies [skilled birth attendance (SBA), adolescent and sexual reproductive health, domestic violence and medical termination of pregnancy]. Analysis for coherence between health policy and HR strategy was informed by a typology covering 'separation', 'fit' and 'dialogue'. Regarding coherence we found examples of complete separation between health policy and HR strategy, a good fit with the SBA policy though modified through 'dialogue' in Vietnam, and in one case a good fit between policy and strategy was developed through successive evaluations. Three key influences on coherence between health policy and HR strategy emerge from our findings: (1) health as the lead sector, (2) the nature of the policy instrument and (3) the presence of 'HR champions'. Finally, we present a simple algorithm to ensure that appropriate HR related actors are involved; HR is considered at the policy development stage with the option of modifying the policy if it cannot be adequately supported by the available health workforce; and ensuring that HR strategies are monitored to ensure continued coherence with the health policy.

Binomial confidence intervals for testing non-inferiority or superiority: a practitioner's dilemma

In Statistical Methods in Medical Research, 2013

Pradhan, Vivek; Evans, John C; Banerjee, Tathagata

In testing for non-inferiority or superiority in a single arm study, the confidence interval of a single binomial proportion is frequently used. A number of such intervals are proposed in the literature and implemented in standard software packages. Unfortunately, use of different intervals leads to conflicting conclusions. Practitioners thus face a serious dilemma in deciding which one to depend on. Is there a way to resolve this dilemma? We address this question by investigating the performances of ten commonly used intervals of a single binomial proportion, in the light of two criteria, viz., coverage and expected length of the interval.

Weighted profile likelihood-based confidence interval for the difference between two proportions with paired binomial data

In Statistics in Medicine, 2014

Pradhan, Vivek; Saha, Krishna K.; Banerjee, Tathagata and Evans, John C.

Inference on the difference between two binomial proportions in the paired binomial setting is often an important problem in many biomedical investigations. Tang et al. (2010, Statistics in Medicine) discussed six methods to construct confidence intervals (henceforth, we abbreviate it as CI) for the difference between two proportions in paired binomial setting using method of variance estimates recovery. In this article, we

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propose weighted profile likelihood-based CIs for the difference between proportions of a paired binomial distribution. However, instead of the usual likelihood, we use weighted likelihood that is essentially making adjustments to the cell frequencies of a 2×2 table in the spirit of Agresti and Min (2005, *Statistics in Medicine*). We then conduct numerical studies to compare the performances of the proposed CIs with that of Tang et al. and Agresti and Min in terms of coverage probabilities and expected lengths. Our numerical study clearly indicates that the weighted profile likelihood-based intervals and Jeffreys interval (cf. Tang et al.) are superior in terms of achieving the nominal level, and in terms of expected lengths, they are competitive. Finally, we illustrate the use of the proposed CIs with real-life.

Enabling Grassroots Communication: A Memory-Aided Broadcast Mechanism for a Community Radio Service on an Ad hoc Device-to-Device Mobile Network

In *IEEE Transactions on Communications*, 62, 2014, 1138 - 1150

Ranganathan, Kavitha and Arora, Sonia

This paper investigates deploying a village level community radio application on an ad hoc network substrate comprising completely of basic mobile phones. We envision a system where any user in the network is equally empowered to generate and distribute audio content to the entire network, using his or her mobile phone. The paper focuses on the study of suitable broadcast algorithms for such a network. In this context we propose a novel broadcast technique called MaBA (Memory-aided Broadcast Algorithm) where nodes bank on their memory to decide whether to forward packets of an audio stream — capitalizing on their past behavior to stabilize on fixed routes for the entire stream. In our scheme called Environs Aware Broadcast Mechanism (EABA), a node gauges the local mobility around itself and uses that to decide which of two broadcast mechanisms to use. When mobility is high it uses SBA (Scalable Broadcast Algorithm), a well-known neighbor knowledge broadcast algorithm with relatively high overheads; but when mobility is low it switches to MaBA. Extensive simulations on a village level MANET confirm that EABA is successful in substantially reducing jitter, latency and packet loss: all critical metrics for an audio application. At the same time EABA does not incur other overheads and maintains the same levels of reachability and efficiency as SBA.

Methods and Models for Costing Carbon Mitigation

In *Annual Review of Environmental Resources*, 38, 2013, 137 – 168

Sathaye, Jayant and Shukla, P. R.

Using the results of more than 20 different global models with a particular emphasis on two rapidly growing large countries (China and India), this paper discusses the cost estimation methods that are used in setting up information for organizing models and to illustrate their global applicability to China, Korea, Japan, India, Indonesia, Europe, Latin America, the Middle East, Africa, and the United States. Some clear points emerge from the intermodal comparison exercise. First, no single technology can play a leading role in global emission mitigation. Second, although participation of all the regions is important, regions where future demographic and economic growth is concentrated will share a large part of this burden. Third, different technologies are important for different regions for mitigating emissions in the most cost-effective way. Fourth, if stringent climate policy targets are to be met, then emission-reduction actions need to be undertaken as soon as possible.

Efficient solution of a class of location–allocation problems with stochastic demand and congestion

In *Computers and Operations Research*, 48, 2014, 20 – 30

Vidhyarthi, Navneet and Jayaswal, Sachin

We consider a class of location–allocation problems with immobile servers, stochastic demand and congestion that arises in several planning contexts: location of emergency



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medical clinics; preventive healthcare centers; refuse collection and disposal centers; stores and service centers; bank branches and automated banking machines; internet mirror sites; web service providers (servers); and distribution centers in supply chains. The problem seeks to simultaneously locate service facilities, equip them with appropriate capacities, and allocate user demand to these facilities such that the total cost, which consists of the fixed cost of opening facilities with sufficient capacities, the access cost of users' travel to facilities, and the queuing delay cost, is minimized. Under Poisson user demand arrivals and general service time distributions, the problem is set up as a network of independent M/G/1 queues, whose locations, capacities and service zones need to be determined. The resulting mathematical model is a non-linear integer program. Using simple transformation and piecewise linear approximation, the model is linearized and solved to ϵ -optimality using a constraint generation method. Computational results are presented for instances up to 400 users, 25 potential service facilities, and 5 capacity levels with different coefficients of variation of service times and average queuing delay costs per customer. The results indicate that the proposed solution method is efficient in solving a wide range of problem instances.

Abstracts of Books



Satish Deodhar teaches economics at IIMA. He has worked on issues related to imperfectly competitive market structures, agricultural trade, WTO, food quality and food supply chain. Several of his research studies have been conducted for the Ministry of Agriculture, Government of India (GOI); Ministry of Food Processing Industry, GOI; Indian Bank, and the Economic Research Service (ERS) of the United States Department of Agriculture (USDA).



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Why I am Paying More: Price Theory and Market Structures Made Simple: IIMA Business Books Series

Random House, December 2013

Day to Day Economics

Random House, July 2012

Deodhar, Satish

Why I am Paying More, the latest title published in this series, is a sequel to Prof. Satish Deodhar's another book, **Day to Day Economics**, which has become a national best-seller, selling 14700 copies.

If Day to Day Economics covered issues related to the macroeconomic environment within which markets operate, 'Why I am Paying More' focuses on microeconomic issues. The book has been written with the objective of unraveling seemingly rarefied principles and applications of microeconomics to markets for goods and services. In this book, you will find answers to many questions you might have sought at one time or the other. For example, you will find out why economist argue that free markets are welfare maximizing, and, you will also know when markets fail justifying government intervention. You will learn that the reasons are not ideological but rooted in objective criteria. You will also find answers to another set of questions - How the firms' ability to charge higher or lower prices is limited by the market structures in which they operate. Also, relating the economic principles to everyday practical questions, one would know as to why rent control leads to dilapidated buildings in Mumbai, why saree emporiums resort to 'end-of-season' discount sales, why price of Hilsa fish has skyrocketed but chicken continues to be relatively cheap, why the market for the board game Monopoly that we all played in our childhood itself has monopolistic elements in it, and, why you paid a fortune on the air-ticket to attend this function when the co-passenger on your flight had paid much less.

While addressing the above economic issues, Prof. Deodhar has avoided the journalistic

temptation of becoming a freakout economist. He remains loyal to the core subject matter of microeconomics and still succeeds in conveying the principles and applications in a style that will reach out to one and all - practicing managers and home-makers, entrepreneurs and policy makers, and even the laypersons.

Business to Business Marketing: A South-Asian Perspective (11th ed.)

Cengage Learning, 2014

Hutt, M.D.; Sharma, D. and Speh, T.W.

Marketing to businesses is fundamentally different from marketing to individual consumers. Business to business (B2B) marketing usually involves a much longer and multifaceted sales cycle. Additionally, decision makers are usually highly involved as the stakes are high. Understanding the B2B process is vital for the success of businesses as there is increasing burden on managers to provide concrete results. Thus, decision making in the B2B context may be understood as individual psychology, small group psychology, or a large group psychology. Consequently, it is important to use apposite strategies to engage B2B customers.

Typically, B2B marketing encompasses marketing to both for-profit and non-profit businesses. Not-for-profit businesses include both government and non-government organizations. Thus, the B2B marketing process is longer and is largely driven by relationship marketing. Buying decisions are made more rationally as there are multiple influencers involved in decision making.

The demand can be for both B2B products and services. The B2B demand is both derived and joint, making it less elastic as compared to the demand for B2C products and services. Thus, B2B transactions are usually larger compared to B2C transactions, thus justifying a more direct and frequent contact between buyers and sellers.

The aforementioned existing difference between B2C and B2B marketing has led to the evolution of a new stream in marketing, i.e., B2B marketing. This book, B2B Marketing, eleventh edition, offers a comprehensive learning of various facets of B2B marketing and is meant to meet the requirements of management and commerce students of various universities across the country.

Online Business Communication for Managers

McGraw-Hill Higher Education, June, 2014

Mishra, S. and Monippally, M.M.

Online Business Communication offers a step-by-step framework for online impression management in an app-centric world marked by ever increasing smartphone usage and differing notions of privacy. It introduces the reader to the art of crafting strong online identities and avoiding online indiscretions that can spoil careers irreparably.

The authors discuss various aspects of virtual team management, specifically dealing with issues of trust, inter-cultural differences and even boredom during online presentations and meetings. The book offers tips on professional networking and personal branding using social media such as LinkedIn, Twitter and Facebook. Also covered are the role of social media in crisis communication and the new meanings and implications business ethics acquires in the world of digital communication.

Law of Sale of Goods

Oxford University Press, 2013

Pathak, Akhileshwar

Law of Sale of goods is a classical field of law on which businesses have got founded. The principles constituting the field had developed over long periods culminating in their codification in the late 1800s. Exploring the judgments from the British and Indian courts over the past 150 years, the book studies the principles from a contemporary perspective, and knits them together in an analytical framework. The book is intended for lawyers, judges, taxation specialists, law researchers and students.



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Legal Aspects of Business (5th Edition)

Tata McGraw-Hill, 2013

Pathak, Akhileshwar

Business law is generalized common sense, as it has developed with trade and commerce over the centuries. Contemporary business practices appear complex as these network numerous of the common sense principles together. Adopting this direction, the book takes 'learning by discovering' approach in the students building business law, from the simple principles to the current practices and challenges. The book is exclusively written for management students.

Law Relating to Special Contracts: Contracts of bailment, pledge, hypothecation, indemnity and guarantee

LexisNexis, Gurgaon, 2014

Pathak, Akhileshwar

"Modern businesses have deployed special contracts intensively and also made innovations when required. Agreements regarding indemnity are used to cover a wide array of risks arising from performance of contracts and other business dealings. Bank guarantees and performance guarantees are a part of nearly all commercial contracts. The traditional concept of 'Pledge' in the law of bailment has found a new significance in the practice of pledging of shares for raising corporate loans. Hypothecation and hire-purchase, widely employed as means of financing and security, share features with pledge. Agency explains much in the contemporary developments connected to outsourcing and dealings between corporations. A rigorous grasp of the principles that govern special contracts is essential for engaging with challenges in today's business environment and for sharpening professional skills. With these ends in mind, the author has delved deep into the old and new British cases to discover the core principles which come to us from common law. He examines critical Indian cases and reviews their connection with English law. This lucid book, follows a narrative style conducive for developing a conceptual understanding of the subject."

Before and After the Global Crisis

Gyan Publications, October 2013

Ram Mohan, T T

The book brings together the author's writings on five broad topics: the Indian Economy, World Economy, Indian Banking, Management and Indian Politics. It covers a period of roughly five years each on either side of the financial crisis of 2007. The book also takes in its stride developments in the Indian polity, and a range of issues relating to management and governance. Written in the readable and hard-hitting style for which the author is well-known the book is at once a chronicle of events and a guide to policy-making in these areas.

Organizational Behavior (15th Edition)

Pearson Education, June 2013

Robbins S. P., Judge T. A. and Vohra, N.

The textbook Organizational Behavior (15th Edition) co-authored with S.P. Robbins and T. A. Judge is used across business schools in India as a staple text for teaching Organizational Behavior. The book explains concepts germane to OB in a very simple and vivid manner. "Recent research, issues pertaining to the topics is summarized and presented in a readable and lucid manner. This text uses several examples of business heads and managers working in India, from the context of business, government, start-ups, non-profits, and educational institutes located in large and smaller cities of India to enable a student sitting in any part of the country to relate with the ideas and

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concepts presented. Several faculty members and students using this text book have commented that the mix of concepts, research, case studies, and teaching ideas makes the text interesting and contemporary.

Inclusiveness, Sustainability and Human Resource Development

McGraw Hill Education (I) Pvt. Ltd., 2013

Agrawal, Narendra M.; Jomon, M.G.; Varkkey, B. and Banerjee, Chandrima (Eds)

Inclusiveness and sustainability is the theme of the Seventeenth National HRD Annual Conference 2013, held at Kolkata during 21-23 November, 2013. This book is a compilation of 22 papers written by academicians and practitioners from India, North America, Europe and Australia. It focuses on the challenges of inclusiveness and sustainability at the societal, organizational, and family and individual level. Sustainability and inclusiveness have emerged as key concepts during the past decade not only in management thought-circles but as a management strategy and as management practices to bring about business advantages. Organizations have realized that an inclusiveness strategy facilitates meeting the expectations of multiple stakeholders and creates a superior branding for them which in turn helps them in attracting and retaining superior talent. It looks almost impossible to create a performance culture for long term without imbibing inclusiveness and sustainability as part of the organizational culture.

The book discusses the role of HRD systems and processes and HR fraternity in creating an inclusive and sustainable society. Here is a great opportunity for HR leaders to take charge of sustainability management in organizations making it the central part of core business strategy to bring in business advantages. HR functionaries must design and implement sound and sustainable people practices which will create long term sustainability of individuals, organizations and societies.



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Abstracts of FPM

Theses



Numeracy, Financial Literacy, Risk Attitudes and Impatience of Forest dependent Communities: Evidence from Andhra Pradesh

Balakrishna, Sundar

Economics

TAC Members – Prof. Vineet Virmani (Chairperson), Prof. Errol D'Souza, Prof. Vijaya Sherry Chand

The joint forest management (JFM) program launched in 1990 has not only helped increase income levels of forest dependent communities (FDCs), but also given them a first-hand exposure to financial management. It is expected that members of FDCs would have their own rules of thumb for making economic decisions. This study attempts to generate empirical evidence on their numeracy, financial literacy, attitude towards risk and “impatience” from two different geographical regions from the Indian state of Andhra Pradesh – Rayalaseema (a relatively dry forest region with low income) and the coastal region (relatively fertile forest and with higher income).

Numeracy and financial literacy of the FDCs were assessed through standard questionnaires and their determinants were estimated using ordered response models. Numeracy was found to correlate positively with education and proximity to urban centers and negatively with family size.



Sundar Balakrishnan is an FPM from the Economics area. His research interests include financial literacy among forest dependent communities. Currently, he is Joint Director and Faculty with the

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On average, members of FDCs from Rayalaseema were found to be more risk averse as well as “impatient” compared to counterparts from the coastal region. Income did not contribute significantly towards risk aversion in both groups. For Rayalaseema, on average, proximity to urban centers contributed positively to “impatience” and membership to “other backward caste” negatively. Only for FDCs from the coastal region, family size and being a shared decision maker within the family contributed negatively to impatience.

Hem H. Dholakia is an FPM from the Public Systems Group. His research interests include air pollution mitigation, health impacts of climate change, adaptation planning, building sustainable cities and health care financing.



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Climate Change, Air Pollution and Public Health in India: Impact Assessment and Adaptation Strategies

Dholakia, Hem H.

Public Systems Group

TAC Members – Prof. Amit Garg (Chairperson), Prof. Dileep Mavalankar, Prof. P. R. Shukla

This research explores exposure-response relationships between daily all-cause mortality and air pollution, temperature and their interactions. Ahmedabad, Bangalore, Hyderabad, Mumbai and Shimla are primarily studied, each representing a different climactic zone. Future temperature related mortality projections for these cities are carried out until 2080s under alternate climate scenarios and subsequently extended to fifty two cities with million plus population. In addition, efficacy of air pollution control policies is assessed using the GAINS model.

Short term air pollution related mortality is highest for Shimla (1.36% mortality increase for every 10 µg/m³ PM₁₀ increase), and results for other cities are comparable to similar international studies. Current policies to curb pollution are inadequate and will not achieve NAAQs even by 2030, therefore additional policies are required.

Heat related mortality effects are highest for Shimla (8.11%) and cold related effects for Ahmedabad (7.09%). Increased heat related mortality will outweigh decreases in cold related mortality in the short (2020s), medium (2050s) and long term (2080s) under RCP 4.5 and 8.5 scenarios. Thirty two million plus cities in the hot & dry and composite climactic zones are most vulnerable to future heat related effects. We provide a consistent framework for public health adaptation to mitigate temperature related mortality effects in the future.

Institutional Interaction and Participative Decision-Making in Development Programmes: A Study of Their Importance in Effective Natural Resource Management

Jain, Dinesh

Agriculture

TAC Members – Prof. Vasant Gandhi (Chairperson), Prof. Vaibhav Bhamoriya, Prof. A. K. Laha

Dinesh Jain is an FPM from the Agriculture area. His research interests include institutional economics, institutional design and its application to watershed management programmes in India.



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This research examines the extent and nature of the interaction within various institutional structures created for implementing various watershed development programmes in India. A conceptual framework is developed to understand the need for institutional interaction, its dynamics and its role in achievement of institutional performance. Furthermore it undertakes an in-depth examination of interaction across 30 local watershed development institutions under different watershed programmes in 3 districts of Andhra Pradesh covering 406 households.

Results indicate that an active general body has positive impact on institutional performance. In addition, frequency of user group meetings and attendance in managing committee meetings bear positive relationship with performance. Interactions for technical, environmental, social, and organisational rationalities are positively related to institutional performance, whereas interactions for achieving political rationality showed negative relationships. Also, open membership in institution, mandatory meetings of institutional constituents, and involvement of technical experts, social

mobilisation, and involvement of weaker sections, cooperative decision making, good leadership, and effective coordination bear positive relationship with performance.

Our research highlights the importance of institutional interaction in better framing of guidelines, institutional objectives and bye laws at national, state and village level. It may help government and development practitioners to improve the design of watershed development institutions for better impact on production, livelihoods and poverty alleviation. The research contributes to literature on new institutional economics and ways to better design institutions.

A Study of the Performance and Adoption of Hybrid Rice in India

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Agriculture

TAC Members – Prof. Vasant Gandhi (Chairperson), Prof. Vaibhav Bhamoriya, Prof. A. K. Laha

Hybrid rice technology is a promising technological breakthrough to increasing rice production in the context of rapidly rising demand and escalating food prices in India. This study develops a comprehensive conceptual framework which includes almost all the factors which may influence the adoption of technology. Data are collected through primary sample survey of over 440 farmers in Uttar Pradesh, Chhattisgarh and Gujarat.

We find agronomic potential, agro-economic potential, demand creation and distribution are significantly related to hybrid rice adoption. Hybrid rice appears to have a yield advantage over open pollinated varieties (OPVs) of rice, especially under unsuitable land and low input conditions. Although yield advantage does not fully convert to profitability, due to poor grain quality, it enables small and marginal farmers to achieve food security for their households. Results also indicate that farmers who are educated, experienced, have smaller farm sizes and lesser percentage of their farm under irrigation show larger extent of hybrid rice adoption.

This study contributes to the literature in terms of a comprehensive framework to understand the adoption of new technologies in Indian agriculture. It also provides a better understanding of the adoption behavior of agricultural technologies and identification of issues behind low adoption of the promising hybrid rice technology in India.

Broadening the Concept of Sustainability and Measuring its Impact on Firm's Performance

Kumar, Bipul

Marketing

TAC Members – Prof. P. K. Sinha (Chairperson), Prof. Abhishek, Prof. P. R. Shukla

The consumer environmentalism has grown significantly due to issues triggered by environmental disasters, protests by activists, and environmental education. The concerns of the consumers and societies have also compelled the firms to alter and align their business practices in line with the relevant issues. In this changing scenario, environmental and social issues arising due to business practices are expected to have a deep influence on marketing theory and practice necessitating firms to pursue sustainability related practices more actively.

Although firms are increasingly engaged in marketing and business practices with a blend of sustainability, the concern over their footprint on the environment, economy and society has gathered momentum over a period of time due to ineffective outcomes. At this juncture, the role of behavior towards sustainability is very important since



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successful implementation of the sustainability in a firm also largely depends on the institutionalization of the right perspective and behavior.

This study intends to broaden the concept of sustainability by exploring the behavioral elements at the firm level that contribute towards sustainability. The study finally aims to ascertain the impact of the sustainability measure of the firms, which includes behavioral dimension in addition to social, environmental and economic dimensions, on different performance metrics of the firms in a B2B context.

Sustainable Low Carbon Transport: An Integrated Policy Framework and Assessment for India

Mittal, Shivika

Public Systems Group

TAC Members – Prof. P. R. Shukla (Chairperson), Prof. R. H. Dholakia, Prof. Prem Pangotra

Contemporary literature shows that externalities of transport sector are sizable and argues for aligning national development and global climate policies to gain co-benefits. However quantitative studies in the Indian context are lacking. We assess alternate future scenarios of the transitions of national transport system (till 2050) and delineate a roadmap of actions that best align national development goals and global climate change target. Besides the conventional drivers, the alternate scenario story-lines include different mix of environmental policies, transport technologies, infrastructures and behavioral changes.

An integrated modeling framework is used to assess alternate scenarios in order to delineate the low carbon transport roadmap for India that optimally aligns national sustainable development objectives with global 2°C temperature stabilization target. The modeling results show that even under a business-as-usual scenario the growth of transport energy demand decouples with the economic growth by 3% CAGR from 2010 to 2050. However the transport energy mix does not get decarbonized due to the lock-in of the transport technologies with the fossil fuels.

We find that actions to align development and climate goals need significantly different portfolio of transport technologies, infrastructures and change in consumption behavior. An optimal mix of policies includes fuel economy standards, modal shifts and cleaner energy supply in the long-term.

Instrumental Leadership as a Determinant of Salesperson Performance: Applying the Extended Full Range Leadership Theory (FRLT)

Mottiani, Manoj

Marketing

TAC Members – Prof. Neharika Vohra (Co-Chair), Prof. Anand Kumar Jaiswal (Co-Chair), Prof. P. K. Sinha

This study validates the extended Full Range Leadership Theory (FLRT) model, which includes “Instrumental Leadership”, by examining the impact of this extended leadership model on salesperson performance via mediators: trust, role ambiguity and salesperson effort.

The study finds that “Instrumental leadership” is able to explain unique variance in salesperson performance, when analyzed alongside the existing FRLT components, supporting its claim to a place in the FRLT structure. Additionally, the findings show that the relationships of Instrumental leadership differ from the relationships of other leadership styles vis-à-vis mediators: trust, role ambiguity and salesperson effort, further supporting its claim to be a distinct and valuable component in the FRLT.

The present body of work is the first instance of a combined testing of the existing FRLT with the new component “Instrumental Leadership”, in the sales context. This

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study contributes towards existing leadership and sales force management literature by explaining and empirically examining the relationship between various leadership behaviors and their impact on salesperson performance. The findings of the study will help sales managers understand the relation between different leadership styles and salesperson performance.

Uncertainty and Risk Management of Climate Change Impacts on Infrastructure Assets

Naswa, Prakriti

Public Systems Group

TAC Members – Prof. Amit Garg (Chairperson), Prof. Sunil Sharma, Prof. P. R. Shukla

Climate change exacerbates risks for infrastructure assets due to uncertainty in future weather parameters and their extremes, such as rainfall and cyclones. The primary objective of this research is to find out the financial risks posed by the changing climate on infrastructure assets and relevant adaptation policies to make them resilient.

This is studied in the context of two cases of Konkan Railways and Mundra port mainly using logistic regression techniques. Konkan Railways is susceptible to incidents of boulder falling and soil slippage in heavy rainfall events. Projected increase in future extreme rainfall events demand robust adaptation planning, which will increase the financial burden for Konkan Railways. Mundra port in Gujarat is a prominent port and is vulnerable to cyclonic activities. Port development has also caused extensive damage to the mangrove plantations which could have provided sustainable protection against storm flooding. There are trade-offs in adaptation strategies providing possible combinations of adaptation choices to maintain a desirable risk level dynamically.

An important conclusion is that investment in sustainable adaptation options could provide longer-term cheaper trade-offs. There are public finance and economic growth implications, as the appropriate adaptation choices will limit economic exposure to climate-induced damages and protect existing and future infrastructure.

Development of Dynamic Capabilities for International Joint Ventures: An Investigation within the context of Insurance Industry of an Emerging Economy

Roy, Kaushik

Business Policy

TAC Members – Prof. S. Manikutty (Chairperson), Prof. Pradyumana Khokle, Prof. Shailendra Mehta

This work studies Dynamic capabilities (DC) in international joint ventures (IJV) in emerging economy markets, indicating an organisation's ability to adapt and sustain in changing environments by reconfiguring its resources and capabilities.

Results indicate the role of environmental shift and resultant uncertainty as a precondition to the development of DC for organisations. Also, development of dynamic capability is a two staged process, viz., sensing of the uncertainty followed by seizing the resultant market opportunity.

The two-staged process of development of DC is facilitated by existence of a structural ecosystem within the organisation. This work offers a comprehensive model of development of DC, with details of the different stages of this development. The model also discusses the parental role in the IJV's development of DC. Second, this is the first study of its kind in the service industry. Top management team of proposed parents may define the nature of their contribution as a precursor to the IJV's ability to develop dynamic capabilities. In fact, proposed parents may improve their alliancing capability by evaluating their contribution along different dimensions. Our study also highlights the importance of a structural ecosystem as an enabler for organisations to develop dynamic capabilities.



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Rich Dad, Poor Dad: Life-cycle Portfolio Savings and Human Capital Accumulation

Thakurata, Indrajit

Economics

TAC Members – Prof. Vineet Virmani (Chairperson), Prof. Errol D'Souza, Prof. Diptesh Ghosh

This dissertation extends the human-capital and intergeneration literature by examining a Two-Generation life-cycle problem of an altruistic parent valuing the human-capital of his offspring and facing competing challenges of his consumption needs during working life and retirement, his dependent child's consumption needs and human capital requirements.

This study explores three income categories, with different levels of financial access and human-capital investment options and compares life-cycle profiles under varying scenarios of education subsidies, wage risk, child ability, asset returns, asset risk and different correlations between asset and wage shocks. The Two-Generation life-cycle problem was solved using Value Function Iteration (Bellman Equations) where each value is recursively written as a function of the subsequent value.

The study finds evidence that explicit valuing of human capital, separate from consumption it affords, is important for human capital acquisition. Simulations demonstrate that child-labor is optimal for a very poor household as it is a means of lifting consumption.

With somewhat higher incomes, evidences of partial education were found. Simulations confirm that rich children get full education with maximum investment. Solving the seventy period recursive problem enables us to quantify the marginal impacts of financial and human-capital parameters on life-cycle profiles while integrating the economics literature of intergenerational set-up with the financial literature on risk and portfolio choice.

List of All Works during 2013-14¹

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AV Outputs Mass Distributed

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- 17 Agarwal, A.K., 2013: Lawfully Yours - Kill Mittal Game: Revolting, Sickening and Distasteful, DNA Ahmedabad, May 30, 2013.
- 18 Agarwal, A.K., 2013: Lawfully Yours - Legal literacy, awareness and CBSE's move, DNA Ahmedabad, April 11, 2013.
- 19 Agarwal, A.K., 2013: Lawfully Yours - Med negligence: Is the compensation really big?, DNA Ahmedabad, October 28, 2013.
- 20 Agarwal, A.K., 2013: Lawfully Yours - New hope & great expectations for cos, DNA Ahmedabad, August 12, 2013).
- 21 Agarwal, A.K., 2013: Lawfully Yours - Ordinance and Politics: Losing Sight of the obvious. DNA Ahmedabad, September 30, 2013.

- 22 Agarwal, A.K., 2013: Lawfully Yours - Patents, generics and 'pay for delay', DNA Ahmedabad, April 4, 2013.
- 23 Agarwal, A.K., 2013: Lawfully Yours - Patents, Seeds, Sowing and Reaping, DNA Ahmedabad, May 23, 2013.
- 24 Agarwal, A.K., 2013: Lawfully Yours - Pharmaceuticals: Compulsory Licensing and Reasonable Efforts, DNA Ahmedabad, December 2, 2013.
- 25 Agarwal, A.K., 2013: Lawfully Yours - Ranbaxy Settlement Raises Many Issues, DNA Ahmedabad, May 16, 2013.
- 26 Agarwal, A.K., 2013: Lawfully Yours - Roses are red and Violets blue, Is Cadbury purple?, DNA Ahmedabad, October 14, 2013.
- 27 Agarwal, A.K., 2013: Lawfully Yours - Swiss Banks and Secrecy: Let Bygones be Bygones, DNA Ahmedabad, June 17, 2013.
- 28 Agarwal, A.K., 2013: Lawfully Yours - Thank god for democratic India!, DNA Ahmedabad, December 16, 2013.
- 29 Agarwal, A.K., 2013: Lawfully Yours - The food bill: Understanding the legal perspective, DNA Ahmedabad, September 2, 2013.
- 30 Agarwal, A.K., 2013: Lawfully Yours - The Indian Bureaucracy: It was bound to happen, DNA Ahmedabad, August 26, 2013.
- 31 Agarwal, A.K., 2013: Lawfully Yours - The mystery of missing files: Going digital makes sense, DNA Ahmedabad, September 9, 2013.
- 32 Agarwal, A.K., 2013: Lawfully Yours - Trademarks, India and the Madrid Protocol, DNA Ahmedabad, May 9, 2013.
- 33 Agarwal, A.K., 2013: Lawfully Yours - United we stand, even if grossly wrong, DNA Ahmedabad, August 5, 2013.
- 34 Agarwal, A.K., 2013: Lawfully Yours - Unsettling settlements of the multinationals: Part 1 of 2, DNA Ahmedabad, November 18, 2013.
- 35 Agarwal, A.K., 2013: Lawfully Yours - Walmart: Outcome Known at the Outset, DNA Ahmedabad, July 8, 2013.
- 36 Agarwal, A.K., 2014: Lawfully Yours - Cleansing of Cricket: Supreme Court reigns supreme, DNA Ahmedabad, March 31, 2014.
- 37 Agarwal, A.K., 2014: Lawfully Yours - Corporate salaries for politicians: It's better to dump the idea, DNA Ahmedabad, February 10, 2014.
- 38 Agarwal, A.K., 2014: Lawfully Yours - Enough of Vodafone tax dispute, DNA Ahmedabad, February 24, 2014.
- 39 Agarwal, A.K., 2014: Lawfully Yours - Hot news doctrine losing relevance, DNA Ahmedabad, January 20, 2014.
- 40 Agarwal, A.K., 2014: Lawfully Yours - Insulating policy formulation from whims and fancies, DNA Ahmedabad, January 13, 2014.
- 41 Agarwal, A.K., 2014: Lawfully Yours - Legality of Business beyond frontiers, DNA Ahmedabad, February 3, 2014.
- 42 Agarwal, A.K., 2014: Lawfully Yours - Of black pots and kettles in Indian elections, DNA Ahmedabad, March 10, 2014.
- 43 Agarwal, A.K., 2014: Lawfully Yours - Sahara, SEBI and SC saga, DNA Ahmedabad, March 17, 2014.
- 44 Agarwal, A.K., 2014: Lawfully Yours - Salt and pepper of Indian politics, DNA Ahmedabad, February 17, 2014.
- 45 Agarwal, A.K., 2014: Lawfully Yours - Software patents: US Supreme Court needs to clear the air, DNA Ahmedabad, January 6, 2014.
- 46 Agarwal, A.K., 2014: Lawfully Yours - Toyota's out of trouble and how!, DNA Ahmedabad, March 24, 2014.

- 47 Agarwal, A.K., 2014: Lawfully Yours - Ukraine-Russia insanity must be brought to an end, DNA Ahmedabad, March 3, 2014.
- 48 Banerjee, A., 2014: Poor Management Research in India: Time for Collective Responsibility, Productivity, January-March 2014.
- 49 Bhamoriya, V., 2013: Book Review : Entrepreneur 5 P.M. to 9 A. M. IIMA Alumnus Magazine, September 2013.
- 50 Dass, R. and Sharda, K., 2013: "Relationship Alignment in Strategic Outsourcing", IIMA IDEA Telecom Centre of Excellence (IITCOE).
- 51 Desai, K.R., Dutta, G. A dynamic pricing approach to electricity prices in the Indian context.
- 52 D'Souza, E., 2013: Creating an independent debt office, The Mint & The Wall Street Journal, October 1, 2013.
- 53 D'Souza, E., 2013: FSLRC's monetary policy myopia. The Mint & The Wall Street Journal, April 7, 2013.
- 54 Gupta, A.K., 2013: A bit of Gandhi in every innovation Students at second Gandhian Young Technological Innovation Awards showcase Ghandhi's philosophy in their innovations; Many students make a trade-off between career-oriented projects and a socially relevant project. Governance Now, April 1, 2013.
- 55 Gupta, A.K., 2013: A closer look at aesthetics of alienation, DNA, August 4, 2013.
- 56 Gupta, A.K., 2013: Bringing empathy in governance, Governance Now, June 14, 2013.
- 57 Gupta, A.K., 2013: Bringing empathy in governance, Governance Now, June 14, 2013.
- 58 Gupta, A.K., 2013: Can society sustain the hunger for ideas?, DNA, October 27, 2013.
- 59 Gupta, A.K., 2013: Delivering public services on time, DNA, October 6, 2013.
- 60 Gupta, A.K., 2013: Derivative innovations for differently abled, DNA, June 16, 2013.
- 61 Gupta, A.K., 2013: Healthcare innovation at the hands of experts, DNA, December 1, 2013.
- 62 Gupta, A.K., 2013: How do we learn from innovations?, DNA, April 14, 2013.
- 63 Gupta, A.K., 2013: In slump time, circular economy is booming, Governance Now, July 11, 2013.
- 64 Gupta, A.K., 2013: In slump time, circular economy is booming, Governance Now, July 11, 2013.
- 65 Gupta, A.K., 2013: Innovative ways of celebrating Diwali, DNA, November 10, 2013.
- 66 Gupta, A.K., 2013: It's time we replicated good initiatives and let ideas grow, DNA, September 29, 2013.
- 67 Gupta, A.K., 2013: Jugaad - a misnomer for majority of grassroots innovations, DNA, May 13, 2013.
- 68 Gupta, A.K., 2013: Let's nurture ideas of future, DNA, August 11, 2013.
- 69 Gupta, A.K., 2013: Mainstream recognition of innovators? Yes, please!, DNA, June 2, 2013.
- 70 Gupta, A.K., 2013: Needed urgently: a fund to fan innovation, big ideas, Governance Now, August 19, 2013.
- 71 Gupta, A.K., 2013: Needed urgently: a fund to fan innovation, big ideas, Governance Now, September 1-15, 2013.
- 72 Gupta, A.K., 2013: Nine grains, nine neighbours: Rethinking urban architecture, DNA, April 21, 2013.
- 73 Gupta, A.K., 2013: Nine grains, nine neighbours: Rethinking urban architecture, Governance Now, April 22, 2013.
- 74 Gupta, A.K., 2013: Paradox called Ladakh: A juxtaposition of beauty and struggle, DNA, September 8, 2013.
- 75 Gupta, A.K., 2013: Principia innovation, Governance Now, April 16, 2013.
- 76 Gupta, A.K., 2013: Principia innovation: Much is said about innovation everywhere - from business to politics, it is the buzzword everywhere but how do we learn how to innovate, Governance Now, April 16, 2013.
- 77 Gupta, A.K., 2013: Recognising talent: From Mabina to Madiba, DNA, December 8, 2013.
- 78 Gupta, A.K., 2013: Re-innovation in govt: Competitive Accountability, DNA, April 7, 2013.
- 79 Gupta, A.K., 2013: Re-rooting technology education, DNA, August 18, 2013.

- 80 Gupta, A.K., 2013: Rethinking the framework of project management, DNA, September 15, 2013.
- 81 Gupta, A.K., 2013: Shun child labour, grant them right to learn, DNA, May 5, 2013.
- 82 Gupta, A.K., 2013: Social innovations are the way to go!, DNA, November 24, 2013.
- 83 Gupta, A.K., 2013: Social innovations for empathetic governance, DNA, June 9, 2013.
- 84 Gupta, A.K., 2013: Summer of ideas: Engaging minds and matter, Governance Now, May 7, 2013.
- 85 Gupta, A.K., 2013: Summer of ideas: Engaging minds and matter, Governance Now, May 7, 2013.
- 86 Gupta, A.K., 2013: Summer of ideas: Engaging minds and matters, DNA, April 28, 2013.
- 87 Gupta, A.K., 2013: Take home library in a box: An idea that must move, DNA, September 22, 2013.
- 88 Gupta, A.K., 2013: The aesthetics of alienation, Governance Now, August 5, 2013.
- 89 Gupta, A.K., 2013: The aesthetics of alienation, Governance Now, August 5, 2013.
- 90 Gupta, A.K., 2013: Towards a new social contract: Police and society, DNA, July 29, 2013.
- 91 Gupta, A.K., 2013: Trail of ideas: From Siberia to Surendranagar, DNA, December 22, 2013.
- 92 Gupta, A.K., 2013: Uttarakhand floods: Will we forget lessons from this disaster, too?, DNA, June 23, 2013.
- 93 Gupta, A.K., 2013: Uttarakhand tragedy: what needs to be done now, Governance Now, June 25, 2013.
- 94 Gupta, A.K., 2013: Uttarakhand tragedy: what needs to be done now, Governance Now, June 25, 2013.
- 95 Gupta, A.K., 2013: Why should start-ups suffer so much in decade of innovation?, DNA, August 26, 2013.
- 96 Gupta, A.K., 2013: Will we forget lessons of this disaster, too?, Governance Now, July 3, 2013.
- 97 Gupta, A.K., 2013: Will we forget lessons of this disaster, too?, Governance Now, July 3, 2013.
- 98 Gupta, A.K., 2014: Health manifesto: Why isn't prevention better than cure?, DNA, February 2, 2014.
- 99 Gupta, A.K., 2014: Manifesto for better technical education, DNA, January 12, 2014.
- 100 Gupta, A.K., 2014: Manifesto for deep green revolution, new politics, DNA, January 5, 2014.
- 101 Gupta, A.K., 2014: Manifesto for promoting innovations in manufacturing, DNA, February 23, 2014:
- 102 Gupta, A.K., 2014: Manifesto for revitalising MSMEs, DNA, January 26, 2014:
- 103 Gupta, A.K., 2014: Non-political manifesto for compassionate cities, DNA, February 9, 2014:
- 104 Gupta, A.K., 2014: Overcoming inertia: Children show the way for better safety, DNA, March 2, 2014.
- 105 Gupta, A.K., 2013: Jugaad' — a misnomer for majority of grassroots innovations, DNA, May 13, 2013.
- 106 Gupta, V., 2013: Creativity boosts productivity. Ahmedabad Mirror, November 20, 2013.
- 107 Gupta, V., 2013: Cultural storm in Indian R&D space, Business Line, December 12, 2013.
- 108 Gupta, V., 2013: Indians averse to risks, hence less creative: IIM-A study, Times of India, November 22, 2013.
- 109 Gupta, V., 2014: Leadership, team work boost creativity: IIMA study, DNA, January 31, 2014.
- 110 Jacob, J., 2013: Hard to benchmark, Indian Express, June 4, 2013.
- 111 Jacob, J., Agarwalla, S.K. 2013: Hard to Benchmark, The Indian Express, June 4, 2013.
- 112 Jain R., 2013: Accelerating 3G in India. The Financial Express, May 2, 2013.
- 113 Jain, R., 2013: Response to Consultation Paper on Valuation and Reserve Price of Spectrum, July 23, 2013.
- 114 Joseph, J., 2013: Changing Contexts and the Challenges for Conciliators, Samhita The XLRI IR News Magazine, August 2013.
- 115 Joseph, J., 2013: Conciliator Competencies in the Context of Changes and Challenges, Samhita The XLRI IR News Magazine, September 2013.
- 116 Joseph, J., Vadis, Q., 2013: Disputes Resolution in Industrial Relations?, Samhita The XLRI IR News Magazine, November 2013.
- 117 Ram Mohan T.T., 2013: Beware the nostrums of economist, The Hindu, April 23, 2013.
- 118 Ram Mohan T.T., 2013: A new note on Mint Street, The Hindu, August 24, 2013.

- 119 Mohan, T.T.R., 2013: Banking on Inclusion, Indian Express, June 28, 2013.
- 120 Ram Mohan T.T., 2013: Easing troubles in the long run, The Hindu, September 11, 2013.
- 121 Ram Mohan T.T., 2013: Making bankers pay for failed gambles, The Hindu, July 12, 2013.
- 122 Ram Mohan T.T., 2013: RBI focus still on currency stability, The Hindu, September 27, 2013.
- 123 Raghuram, G., 2013: Positive Outlook: DFC and DMIC to drive sector growth. Gujarat Infrastructure, October-December 2013.
- 124 Raghuram, G., 2014: High Speed Rail in India, Traffic Infra Tech, Vol. 4, Issue 4, February-March, 2014.
- 125 Raghuram, G., 2014: Key Trends and Outlook : Immense potential for improving efficiency, Indian Infrastructure, January 2014.
- 126 Raghuram, G., 2014: Private Airport Operator can Retain AAI staff, The Times of India Chennai, March 5, 2014.
- 127 Singh, S., 2013: Diversification policy: old wine in old bottles, The Tribune, Chandigarh Op-Ed Agriculture, May 21, 2013.
- 128 Singh, S., 2013: Effective inclusive marketing systems for small farmers, The Hindu Annual Survey Op-Ed Agriculture, 2013.
- 129 Singh, S., 2013: Role of marketing in diversification, in Punjab Advance (in Eng, Hindi and Punjabi), June 2013.

Invited Seminars/Colloquia

- 1 Agarwal, A.K., 2014: Addressing Issues and Challenges of Energy and Infrastructure Sector in India and the Role of Energy Institutes in India, International Conference on Energy and Infrastructure 2014, SPM, PDPU, Gandhinagar, India, January 11, 2014.
- 2 Agarwal, A.K., 2014: Arbitration Laws as applicable to Government, Institute of Cost Accountants of India (for Ministry of Railways), Delhi NCR, India, June 10, 2013.
- 3 Agarwal, A.K., 2014: International Business and Intellectual Property Rights, School of Management, PDPU, Gandhinagar, India, March 25, 2014.
- 4 Agarwal, A.K., 2014: Panel Discussion - 7th Annual Intellectual Property Summit 2014: Y.J. Trivedi-AMA Academy for Intellectual Property Rights, AMA, Ahmedabad, India, January 10, 2014.
- 5 Agarwalla, S. K., Jacob, J., Varma, J.R., 2014: High Frequency Manipulation at Futures Expiry: The Case of Cash Settled Indian Single Stock Futures, SEBI's First International Research Conference, Mumbai, India, January 27-28, 2014.
- 6 Basant, R., 2013: A Global Skills Market Place: Challenges and Opportunities, Plenary address, South Asia Policy Dialogue on The Quest for Excellence: The Skills Revaluation in UK and South Asia organised by British Council, September 23, 2013.
- 7 Basant, R., 2013: Innovating Capabilities of Cities and Cities as Growth Drivers, Growth Dialogue and World Bank High-Level Policy Symposium on Innovation and Growth, Kuala Lumpur, Malaysia, July 17-18, 2014.
- 8 Basant, R., 2013: Participated in Conference on Patent Use, Organized by Intellectual Property Office and Big Innovation Centre, London, U.K., September 9, 2013.
- 9 Basant, R., 2013: Private Provisioning of Public Goods: Exploring Innovative Entrepreneurial Solutions, Asia Forum on Global Governance 2013, New Delhi, India, November 13, 2013.
- 10 Basant, R., 2013: Prospects of Australia-India in Education and Knowledge in Sydney, Canberra and Melbourne, The Australia-India Round Table 2014, Ministry of External Affairs, GOI and Observer Research Foundation, New Delhi, India, February 3-7, 2014.
- 11 Bhamoriya, V., 2013: How to build your team to be number one, Vijaya Bank Foundation Day Lecture, Prakash School Auditorium, Ahmedabad, India, October 23, 2013.

- 12 Deodhar, S., 2013: Invited discussant for the seminar on Political Response to Economic Restructuring, Indian School of Political Economy, Pune, India, August 2-3, 2013.
- 13 Gupta, A.K., 2013: 'Looking ahead' for us as a society, SUKRITI, Manthan Samvaad, Hyderabad, India, October 2, 2013.
- 14 Gupta, A. K., "Crucible of creativity in crop development: learning from farmer breeders" 5th J.C. Bose Memorial Lecture and Foundation Day of NIPGR," New Delhi, December 10, 2013
- 15 Gupta, A.K., 2013: 6th SARCHI Retreat and Interface in Pretoria, South Africa, November 22-26, 2013.
- 16 Gupta, A.K., 2013: Authenticity in personal life, profession and public roles, Seminar at SRISTI, Ahmedabad, India, April 9, 2013.
- 17 Gupta, A.K., 2013: Beyond the Built Environment: Achieving India's Sustainable Future, Ecobuild India and UBM India Pvt. Ltd., Mumbai, India, April 17, 2013.
- 18 Gupta, A. K., "Conserving biodiversity and associated knowledge systems: A perspective from below," Diamond Jubilee Lecture at CSIR-NBRI, Lucknow, August 19, 2013
- 19 Gupta, A.K., 2013: Elimination of child labour, Indian Institute of Management -Ahmedabad, Ahmedabad, India, May 23, 2013.
- 20 Gupta, A.K., 2013: Ethics and Human Rights, Lecture at Sardar Vallabhbhai Patel National Police Academy, Hyderabad, India, July 26, 2013.
- 21 Gupta, A.K., 2013: Grassroots innovation and transformation towards sustainable development, Conference on Transformation in a Changing Climate, Georg Sverdrups Hus at the University of Oslo, Norway, June 19-21, 2013.
- 22 Gupta, A. K., "Making India innovative: An agenda for action," National Level Fair on Ideas, Inventions and Innovations (i3Expo2013), PSG College of Technology, Coimbatore, India, September 29, 2013.
- 23 Gupta, A.K., 2013: India Reimagined, Redefined and Reignited: A Perspective on Grassroots, Youthful Creativity and Innovation, Lila-PRISM lecture series Aug-Dec 2013, India Habitat Centre, New Delhi, India, December 10, 2013.
- 24 Gupta, A.K., 2013: Innovation Roadmap 2020 for UP, Lectures at Brainstorming Session of State Innovation Council, UP (SInCUP) and Bankers Institute of Rural Development (BIRD), Lucknow, India, July 24, 2013.
- 25 Gupta, A.K., 2013: Innovation through attend by video, Lecture at Human Factors & Applied Cognition Lab, School of Humanities and Social Science Center, Indian Institute of Technology, Indore, India, April 23, 2013.
- 26 Gupta, A. K., "Farmer and worker based innovation for entrepreneurial development," Workshop on Innovation-led and Technology Driven Entrepreneurship - the Way Ahead for Kerala, December 3, 2013
- 27 Gupta, A.K., 2013: International and inter-disciplinary symposium, Social Design/Public Action, Vienna, Austria, September 27, 2013.
- 28 Gupta, A.K., 2013: Keynote lecture at Bhabha Atomic Research Centres Officers Association (BARCOA), Mumbai, India, August 23, 2013.
- 29 Gupta, A.K., 2013: Knowledge Sharing Initiatives for Improving MBA (ABM) and MSc (Agricultural Marketing and Co-operation) post-graduate degree programmes, UAS, Bengaluru, India. April 1, 2013:
- 30 Gupta, A.K., 2013: Learning from the minds on the margin: Towards a new social contract for responsible science, Prof. P.N. Srivastava Endowment Lecture, JNU, New Delhi, India, April 11, 2013.
- 31 Gupta, A. K., "Frugal Innovation: How Can We Do More with Less?" The World Innovation Summit for Education, Doha, Qatar, October 30, 2013
- 32 Gupta, A.K., 2013: Lecture at Punjab Technical University, December 27, 2013.
- 33 Gupta, A. K., "Engineering for social change: The case of techpedia.in," International Congress Vision, Lima, Peru, 16 - 18 Oct., 2013
- 34 Gupta, A. K., "Innovation in Government: Strategy and Implementation," International Workshop on Government Performance Management, Delhi [Organised by Government Performance Management, Cabinet Secretariat, Delhi] July 11, 2013.

- 35 Gupta, A.K., 2013: Multi-disciplinary Perspectives on Science Technology and Society, NIAS, Bangalore, India, August 2, 2013.
- 36 Gupta, A. K., "Innovations in inclusive growth," IIM World Conference at Goa, IIM, Calcutta, May 31, 2013
- 37 Gupta, A. K., "Leveraging Indigenous Knowledge, creativity and innovations: Honey Bee Network approach," World Indigenous Network Conference 2013 (WINC 2013), Darwin NT, Australia, 26th May, 2013.
- 38 Gupta, A.K., 2013: Scale up Social Innovation in Asia through ICT and People's Participation, The Hope Institute, Jongno-gu Seoul, Korea, October 8, 2013.
- 39 Gupta, A.K., 2013: Search for Game Changing Energy Technologies for the Developing World, Reliance Corporate Park, Navi Mumbai, India, May 15, 2013.
- 40 Gupta, A.K., 2013: The Clash of Times The World Economy, between Emergencies and Long Term, Lecture at International economic Forum: Les Rencontres Economiques d'Aix-en-Provence 2013, Aix-en-Provence, France, July 6, 2013.
- 41 Gupta, A.K., 2013: Triggering innovations for inclusive development, LBSNAA, Mussoorie, India, August 16, 2014.
- 42 Gupta, A.K., 2013: Women Sarpanchs of Gujarat, IIM-Ahmedabad, Ahmedabad, India, December 6-7, 2013.
- 43 Gupta, A. K., "Biotechnology based entrepreneurship for social change," 2nd Foundation Day BIRAC, New Delhi, 21st March 2014
- 44 Gupta, A. K., "Breakthrough innovations for social change," BITSAA Global Alumni Meet, BITS Pilani-Hyderabad Campus, January 5, 2014
- 45 Gupta, A. K., "Learning from the margins," Bodo Students' Union Open Session, Udalguri, Assam, 12 January, 2014
- 46 Gupta, A. K., "Promoting originality and social relevance in engineering education," [Lecture delivered through video conferencing facility], 17th Punjab Science Congress, Punjab Technical University, Kapurthala, February 16, 2014
- 47 Gupta, A.K., 2014: International Academic Panel (IAP) meeting at Singapore Management University, Singapore, March 19-20, 2014.
- 48 Gupta, A.K., 2014: Key note address at the Workshop on Farmer Innovations in Kerala (Kerala State Planning Board), Thiruvananthapuram, India, March 26, 2014.
- 49 Gupta, A.K., 2014: Lecture at 101st Session of Indian Science Congress, University of Jammu, Jammu, India, February 3-7, 2014.
- 50 Gupta, A.K., 2014: National Education Summit -Towards Educating Young India. Panel discussion on Fusion of Engineering Education with Indian Social Needs, Indian Institute of Technology Gandhinagar, Gujarat, India, January 11, 2014.
- 51 Gupta, A.K., 2014: Rural Innovators' Meet, RIM 2014 (Mitrani Ketan), Thiruvananthapuram, India, March 27, 2014.
- 52 Gupta, A.K., 2014: Speaker at EYES Lecture series, University of Mumbai, Mumbai, India, March 1, 2014.
- 53 Jaiswal, A.K., 2013: Competitive Dynamics between MNCs and Domestic Companies at the BOP? An Institutional Perspective. Product Development & Management Association, Chennai, India, December 16, 2013.
- 54 Jaiswal, A.K., 2014: How MNCs Face Competition from the Domestic Companies at the BoP?. XLRI Jamshedpur, India, March 18, 2014.
- 55 Joseph, J., 2013: Jurisprudence of Performance Appraisal Systems: An Analysis of Supreme Court Rulings, Gujarat Employers Organization: HR Convention: HR Challenges in a Challenging Economic Environment: From Complexity to Clarity, December 14, 2013.
- 56 Joseph, J., 2014: HR from an Industrial Relations Perspective: The Case of the Performance Appraisal Function, National IR Conference, XLRI, Jamshedpur, India, January 11-12, 2014.

- 57 Mathur, A.N., 2013: Frontiers of Hermeneutic Research Methods. Doctoral Colloquium for Researchers, IIM Ahmedabad, Ahmedabad, India, May 9, 2013.
- 58 Mathur, A.N., 2013: Managing Cultural Diversity in Residential Task Communities, Basudeopur Residential Park, ITC Munger, Bihar, India, October 21, 2013.
- 59 Mathur, A.N., 2013: Practising Gender Equity and Gender Harmony in Schools. Kendriya Vidyalaya Sanghathan Seminar, Kendriya Vidyalaya, ONGC Chandkheda, Ahmedabad, India, May 21, 2013.
- 60 Mathur, A.N., 2013: The experience of understanding concerns about gender equity, diversity and inclusivity in a local community. GEDI Colloquium, Centre for Gender Equity, Diversity and Inclusivity (GEDI), IIM Ahmedabad, Ahmedabad, India, October 17, 2013.
- 61 Monippally, M.M., 2013: Exploring learner-centred pedagogy in the MBA classroom, Conference on Management Education in India - Inculcating a Global Mindset, Mangalam College of Engineering and Technology, Kottayam, Kerala, India, May 3, 2013.
- 62 Monippally, M.M., 2013: Leadership Communication for Educators, Diocese of Varanasi, Varanasi, India, November 9, 2013.
- 63 Mukherjee, S., 2013: Supply Chain Visibility: When Less is More, Academic Keynote, 4th Annual Manufacturing CIO Summit, Anand, Gujarat, India, November 14, 2013.
- 64 Pangotra, P., 2013: Greening of Industry and Industrial Ecology, IIM-Bangalore, Bangalore, India, October 28, 2013:
- 65 Pingali, V., 2013, Welfare Implications of Patent Protection, Conference on Pharmaceutical Sector, Competition Commission of India, Delhi, July 19, 2013.
- 66 Raghuram, G., 2013: Building Core Infrastructure that Integrates and Strengthens Our Transport Infrastructure, The Multimodal Logistics Summit, Kerala Sea and Trade Summits & Smartways B2B Pvt Ltd, Cochin, India, August 2, 2013.
- 67 Raghuram, G., 2013: Business Policies for Air Cargo Supply Chain Growth. Presentation at the Symposium on Progressing Air Cargo-Challenges and Opportunities, ACAAI and ACFI, Delhi, India, March 26, 2014.
- 68 Raghuram, G., 2013: Delivering Seafaring as a Profession of Choice. The Maritime Education and Training Summit, Kerala Sea and Trade Summits & Smartways B2B Pvt Ltd, Cochin, Kerala, August 1, 2013.
- 69 Raghuram, G., 2013: Freight Logistics: Policy and Other Contemporary Issues, Key Note Address at Workshop on Next Generation Sustainable Freight Transportation, Indian Institute of Technology, Delhi, India, August 8-9, 2013.
- 70 Raghuram, G., 2013: Growth Corridors in India – Financing, Workshop on Building National and Regional Growth Corridors in South Asia, Asian Development Bank, Manila, Philippines, October 16-17, 2013.
- 71 Raghuram, G., 2013: Growth Corridors in India – Special Focus on Kolkata Chennai Corridor, Workshop on Building National and Regional Growth Corridors in South Asia, Asian Development Bank, Manila, Philippines, October 16-17, 2013.
- 72 Raghuram, G., 2013: Issues in High Speed Rail Development in India. High Speed Rail Symposium, Transport Research Group of India, Mysore, India, May 9-10, 2013.
- 73 Raghuram, G., 2013: Issues in Maritime Training and Education, National Maritime Day Seminar, Mumbai, India, April 4, 2013.
- 74 Raghuram, G., 2013: Issues in Risk Management, 2nd Directors' Conclave: Towards Value Adding Board, International Management Institute and Department of Public Enterprises, Bangalore, India, June 27-29, 2013.
- 75 Raghuram, G., 2013: Lessons from PPP: Aviation/Tel Sector, Railway Staff College, Vadodara, India, June 14, 2013.
- 76 Raghuram, G., 2014: Logistics in India: A Peep into the Next Decade: Infrastructure and Legislation, Presentation at the Castrol Logistics Contractor Meet, Castrol India Ltd, Mumbai, India, April 16, 2014.

- 77 Raghuram, G., 2013: "Emerging Issues in Management", The world conference on Emerging Issues in Management lead by IIM-Calcutta, Goa, India, May 30 - June 1, 2013.
- 78 Raghuram, G., 2014: Issues in Setting up a Sector Specific University. Conclave of Industry and Academia, HAL Management Academy, Bangalore, India, February 17, 2014.
- 79 Ram Mohan, T.T., 2014: Banking sector reforms in India. Economic Conclave, Gokhale Institute of Economics and Politics, Pune, India, February 15, 2014.
- 80 Ram Mohan, T.T., 2014: Interaction with the Fourteenth Finance Commission, Tata Institute of Social Sciences, Mumbai, India, May 13, 2013.
- 81 Ram Mohan, T.T., 2014: Nachiket Mor committee report on financial inclusion, CAFRAL, Mumbai, India, February 4, 2014.
- 82 Ravichandran, N., 2014: Entrepreneurship and Sustainable Business Models, MMA (Namakkal Chapter), Namakkal, Tamil Nadu, India, February 25, 2014.
- 83 Ravichandran, N., 2014: Future of management education, International Conference on Revisiting the MBA in the Asia Pacific Context, Bangalore, India, January 30-31, 2014.
- 84 Ravichandran, N., 2014: Joy of Research, International Conference on Management of Globalized Business: Emerging Perspective, Marwadi group of institutions, Rajkot, India, February, 2014
- 85 Ravichandran, N., 2014: Innovations in Higher Education, Higher Education Conference, AMA, Ahmedabad, India, March 22, 2014.
- 86 Ravichandran, N., 2014: Lean management for productivity Enhancement, NPC, Ahmedabad, India, Jan 29, 2014.
- 87 Ravichandran, N., 2014: Social entrepreneurship. Second Innovation Program, Aditya Institute of Management Studies and Research, Mumbai, India, February 28, 2014.
- 88 Ravichandran, N., 2014: Transforming Yourself and Transforming India, MMA, Vivekananda Group of Institutions, Thiruchengode, India, February 25, 2014.
- 89 Ravichandran, N., 2014: Transforming Yourself: Transforming India, Marwadi Group of Institutions, Rajkot, India, January 12, 2014.
- 90 Sharma, V.P., 2013: Problems and Prospects of Oilseeds Production in India. Senior Officers' Meeting of the Department of Agriculture & Cooperation, Ministry of Agriculture, GoI, New Delhi, India, July 23, 2013.
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- 92 Singla, C., 2013: Panellist/Discussant at the symposium on Rethinking Management: A comparative examination of trends in corporate governance related practices and research in the Indian context, 3rd conference of the Indian Academy of Management, Indian Institute of Management Ahmedabad, India, December 12-14, 2013.
- 93 Varkkey, B., 2013: Global Good Practices in Employee Relations - Lessons from Germany, China & South Korea, Employers Federation of India - National HRM Submit and CIE 33rd Employee Relations Conference, Mumbai, India, October 24 - 25 2013.

Ongoing research projects as on March 31, 2014

	Title of the project	Coordinator(s)	Funding Agency
1	A Mathematical Programming Approach with Revenue with Revenue Management in Home laona Pricing	Goutam Dutta	Internal Funding
2	Antecedents and Consequences of Internationalization (Outward FDI)	Chitra Singla	IIM Ahmedabad
3	Application of Remote Sensing for Integrated Land use, Water and Energy Management in Rural Areas: Exploring Energy Plantation Opportunities	Amit Garg and P R Shukla	Ministry of Environment & Forests, Govt of India
4	Assessing the impact of special manpower development program in VLSI Design and related software(SMDP-Phase II)	Rakesh Basant	Department of Information Technology, GOI
5	Brand adoption by retailers that serve customers at the base of pyramid	P K Sinha	Centre for Retailing
6	Capturing of best practices in Tata Group	Sanjay Verma	Tata Quality Management Services
7	Case Writing-in Mergers and Acquisitions	Premchander	Internal Funding
8	Closed-Loop Inventory Models for the Pallet Supply Chains	Debjit Roy	IIM Ahmedabad
9	Cross cultural perceptions of workplace Bullying	Premilla D'Cruz	IIM Ahmedabad
10	Education Innovation Bank : Decentralized Professional development & Quality Enhancement	Vijaya Sherry Chand	Aurobindo Society
11	Effects of pressures, opportunities and client size on auditors, fraud risk assessments and audit effort.	Naman Desai	IIM Ahmedabad
12	Emergency Medical Services Facilities Location with Service Level Constraints on Priority Patient Classes	Sachin Jayaswal	IIM Ahmedabad
13	Emotional Labour in Indian Call Centres	Ernesto Noronha	IIM Ahmedabad
14	Endowment Effects in Barter Trade: Experimental Evidence	Viswanath Pingali	IIM Ahmedabad
15	Energy Labeling of Home Appliances and Consumer Behavior-II	Rama Mohan Turaga and George Kandathil	IIM Ahmedabad
16	Epidemiology of TB and related drug sales – Drug sales as an indicator of Tuberculosis epidemiology in India – Secular trends in Tuberculosis prevalence: Assumptions from drug market	Viswanath Pingali, K.V. Ramani and Sreejan Gopinath	IIM Ahmedabad
17	Estimating Vessel Sojourn Times in Unloading Operations at Sea Container Terminals	Debjit Roy	IIM Ahmedabad
18	Evaluating the purchase process of household appliances accounting for consumers' attitudes towards eco friendly and sustainable consumption behaviour	Arindam Banerjee	IIM Ahmedabad
19	Evolving Policy for Spectrum Management through Impact Assessment of Wireless Technology and Broadband Connectivity in Rural India	Rekha Jain	Ford Foundation
20	Examining the Influence of Service Quality on Customer Satisfaction and Patronage Intentions in Convenience Store Industry	Dheeraj Sharma	IIM Ahmedabad
21	Family Ownership, Informed Trading and Liquidity	Joshy Jacob and Sobhesh K Agarwalla	IIM Ahmedabad
22	Financial inclusion Research and Convening Program	Sobhesh Agarwalla	CITI Foundation [through United Way Worldwide]
23	Finland India Economic Relations	Ajeet Mathur	IIM Ahmedabad

	Title of the project	Coordinator(s)	Funding Agency
24	From Compliance to Value Internalization: The Critical Role of the Match Between Employee's Pre-Socialization Habitual Behaviour and Organization's Expected Employee Behaviour – Part II	George Kandathil	IIM Ahmedabad
25	Green Design to Green Disposal: Designing the green supply chain for the next generation	Debjit Roy	UGC & British Council
26	How MNCs Compete with the Local Companies in the Low Income Markets	Anand Kumar Jaiswal	IIM Ahmedabad
27	Hybrid Vehicle Routing Problem Modelling	Prahalad Venkateshan	IIM Ahmedabad
28	Impact of Coherence on Employee Productivity: A Longitudinal Study of Indian IT Firms	D. Karthik and Rakesh Basant	IIM Ahmedabad
29	Impact of Reservations in Higher Education – The Case of other backward classes	Rakesh Basant	IIM Ahmedabad
30	Implementing activity in accordance with the Knowledge Economy Partnerships scheme (Exploring Institutional Link)	Rakesh Basant	British Council - Travel Grant
31	Instruments of Social Welfare	Ankur Sarin	IIM Ahmedabad
32	Joint-Liability, Multiple Borrowing and Over Leverage	Viswanath Pingali	IIM Ahmedabad
33	Location-allocation problems with stochastic demand and congestion: Lagrangian relaxations with benders Decomposition	Sachin Jayaswal	IIM Ahmedabad
34	Measuring Auditors perceptions of ethicality of accounting transactions	Naman Desai and Sobhesh Agarwalla	IIM Ahmedabad
35	Non Standard Work Relationship in the Public Sector	Ernesto Noronha and Premilla D'cruz	International Labour Office, Geneva
36	Partnership between Swedish and Indian Institutions for Improving Maternal Health and Strengthening Mid-Wifery in India	K V Ramani	Academy of Nursing Studies and Women Empowerment Research Studies
37	Peer-to-peer file sharing in device-to-device adhoc networks	Kavitha Ranganathan	IIM Ahmedabad
38	Predictability of Asset Returns and Long-Term Portfolio Choice	Vineet Virmani	IIM Ahmedabad
39	Project on Enhancing Healthcare Access in India an IIMA – Abbott Initiative	P K Sinha	Abbott Health Care Pvt. Ltd.
40	Rashtriya Swasthya Bima Yojana: Expanding Health Insurance Access for BPL families	D. Karthik	IIM Ahmedabad
41	RCH Dissemination and Advocacy	K V Ramani	Internal Funding
42	Research in ports related transport infrastructure and PPPs	G Raghuram	Adani Ports and SEZ Ltd.
43	ROC curve estimation in a population based model	Tathagata Bandyopadhyay	IIM Ahmedabad
44	Role of Culture in Celebrity Endorsement: A Review of Brand Endorsement by Celebrities in Indian Context	Arvind Sahay and Abhishek	IIM Ahmedabad
45	Satyam- A Post Mortem, Diagnosis and Prog.	Prem Chander and S.K. Barua	IIM Ahmedabad
46	Sensemaking and Institutionalization in armed conflict: Applying concepts to practice	Kirti Sharda	IIM Ahmedabad

	Title of the project	Coordinator(s)	Funding Agency
47	Social Mobility via Management Education – Paths Taken by Women	Ankur Sarin	IIM Ahmedabad
48	Stochastic Modeling of Restaurant Operations	Debjit Roy	IIM Ahmedabad
49	Study of Energy Balance of Rural India Using Geospatial Inputs (A study under the 'Energy and Mass Exchange in Vegetative Systems')	Amit Garg and P R Shukla	Space Application Centre, ISRO
50	Studying the impact of just noticeable differences in stake sizes in Ultimatum Games	Sanjeev Tripathi	IIM Ahmedabad
51	Talent Management: Challenges and Best Practices in Pharmaceutical Firms	Kirti Sharda	IIM Ahmedabad
52	Techno-economic Assessment of CO2 Capture and Storage Potential in India: A Policy Perspective	Amit Garg and P R Shukla	Department of Science & Technology, Govt of India
53	The Trajectory of Collectivization in India's ITES-BPO sector's	Premilla D'Cruz and Ernesto Noronha	IIM Ahmedabad
54	Turning Around the Business as well Creating Sustainability	P K Sinha and Biju Varkkey	Bharat Coking Coal Ltd.
55	United States India Joint Centre for Building Energy Research and Development: Grid responsive buildings	Amit Garg and P R Shukla	Department of Science & Technology, Govt of India
56	University industry linkages in UK and India – Exploring Models of Enterprise Creation to CIIE	Rakesh Basant	British Council

	No. of projects	Value (Rs in lakhs)
External Funding Projects	20	759
Internal Funding Projects	36	52
Total Projects	56	811